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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/664,403	09/18/2000	Ross H. Comell	05997.0019-00	4008
22852	7590 01/22/2004		EXAMINER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP			AKERS, GEOFFREY R	
1300 I STREI	ET, NW		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			3624	
			DATE MAILED: 01/22/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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0.50	Application No.	Applicant(s)	——— <del>——————————————————————————————————</del>
Office Action Summary	07/664403	Cover	
	Exampliner (	Art Unit  36 24	
The MAILING DATE of this communication appear.	s on the cover sheet wij	h the correspondence address	
rendu for nepty	•		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SETHE MAILING DATE OF THIS COMMUNICATION.		MONTH(S) FROM	
<ul> <li>Extensions of time may be available under the provisions of 37 CFR 1.136 (a). I mailing date of this communication.</li> </ul>			•
<ul> <li>If the period for reply specified above is less than thirty (30) days, a reply within</li> <li>If NO period for reply is specified above, the maximum statutory period will apply</li> <li>Failure to reply within the set or extended period for reply will, by statute, cause</li> <li>Amy reply received by the Office later than three months after the mailing date of earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>	and will expire SIX (6) MONTHS	from the mailing date of this communication.	
Status /	1 .	•	
1) Responsive to communication(s) filed on	12/4/03		
	tion is non-final.		· ·
3) Since this application is in condition for allowance	except for formal mat	ters, prosecution as to the merits	: is
closed in accordance with the practice under Ex pa	arte Quayle, 1935 C.D	. 11; 453 O.G. 213.	
	<b>~</b> .		
4) Claim(s) 7 - 10 27 4a) Of the above, claim(s)	~ /0	is/are pending in the applica	ition.
		is/are withdrawn from cons	sideration.
5) Claim(s)		is/are allowed.	
6) $\Box$ Claim(s) $\frac{7-10}{27}$	<u> ე                                   </u>	is/are rejected.	
		is/are objected to.	
8) Claims	are subjec	t to restriction and/or election red	Juirement
Application Fahats			100
9) $\square$ The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are	a) accepted or b)	objected to by the Examiner.	
Applicant may not request that any objection to the d	rawing(s) be held in abe	evance. See 37 CFR 1 85(a)	
11) The proposed drawing correction filed on	is: a)□	approved b) disapproved by th	e Examiner
If approved, corrected drawings are required in reply t	o this Office action.		C Examinor.
12) The oath or declaration is objected to by the Exami			
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgement is made of a claim for foreign pr	iority under 35 U.S.C.	§ 119(a)-(d) or (f).	1
a) $\square$ All b) $\square$ Some* c) $\square$ None of:			
1. Certified copies of the priority documents have			
2. Certified copies of the priority documents have	e been received in App	lication No.	
3. U Copies of the certified copies of the priority do application from the International Bures	cuments have been re	eceived in this National Stage	`
See the attached detailed Office action for a list of the	certified copies not re	eceived.	ļ
14) Acknowledgement is made of a claim for domestic	priority under 35 U.S.	C. § 119(e).	
a) The translation of the foreign language provisional	application has been	received.	
15) Acknowledgement is made of a claim for domestic	priority under 35 U.S.	C. §§ 120 and/or 121.	
Attachment(s)  1) ANotice of References Cited (PTO-892)			
21 Nation of D. C.	4) Interview Summary (PTO		
2)	5) Notice of Informal Patent	Application (PTO-152)	
	6) 🔲 Other:		ĺ

Office Action Summary

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#### **DETAILED ACTION**

## Response to Request for Continued Examination(RCE)

- 1. This action is issued in reply to applicant's Request for Continued Examination(RCE)(Paper #12) and Amendment B(Paper #13) filed 12/4/03.
- 2. Claims 7,27,28,31,45,49,51-53,56-58,60-62 were amended.
- 3. Claims 7-10 and 27-70 are pending.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 7-10,27-70 are rejected under 35 USC 103(a) as unpatentable over Pemberton(Canso Investment Counsel) in view of Layer Eight Systems(1994) and further in view of "An Investor's Guide to Mortgage Securities"(IGMS)(1997).
- 6. As per newly amended claims 7-10,27-70 Pemberton teaches a method for the creation of structured interest rate securities(page 1).Pemberton also teaches that structured notes contain embedded options which may be plain or exotic(page 1).Pemberton further teaches that plain structures include callable, puttable and extendable bonds which will mitigate prepayment risk(Page 1).In addition to that taught by Pemberton, Layer Eight teaches a real time interest rate

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derivatives pricing system as well as hedging strategies and floating rate characteristics(page 4) including constant maturity structures and interest rate guarantees(page 4) as well as a data processing software(document). Layer Eight further teaches yield curve modules and modular calculators(page 2) as well as real time data feeds(page 2). Level Eight also teaches caps and floors collars, corridors, straddles and swap options (page 3) as well as multiple price swap matrices(page 4). IGMS teaches delineating the risks associated with each of the classes of mortgage securities(pages 1-2).IGMS further teaches planned amortization class (PAC) bonds and targeted amortization class bonds(TAC) which have been designed to reduce investors' prepayment risk by establishing a sinking fund structure(page 8). IGMS also teaches IO and PO securities(page 10), whereby IO's rise and fall in value according to interest rate fluctuations(page 10). IOs can also be hedged. It would have been obvious to one skilled in the art at the time of the invention to combine Pemberton in view of Layer Eight Systems to teach part of the disclosure. The motivation to combine is to teach a method for utilizing structured notes in combination with interest rate derivatives as delineated with Layer Eight. It also would have been obvious to one skilled in the art at the time of the invention to combine Pemberton in view of Layer Eight and further in veiw of IGMS to teach applicant's disclosure. The motivation to combine is to teach a method for restructuring structured notes by utilizing sinking fund provisions or a combination of interest rate derivatives to hedge against prepayment risk as delineated by IGMS(page 8).

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## Response to Arguments

7. Applicant's arguments with respect to claims 7-10 and 27-70 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

8. THIS ACTION IS MADE NON-FINAL.

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9. Any questions concerning this communication should be addressed to the examiner of record, Dr. Geoffrey Akers, P.E., who can be reached between 6:30 AM and 5:00 PM Monday through Friday at 703-306-5844. If attempts to contact the examiner are unsuccessful, the examiner's superior, Mr. Vincent Millin, SPE, may be telephoned at (703)-308-1065.

The fax number for Formal or Official faxes and Draft or Informal faxes to Technology Center 3600 or this Art Unit is (703)-308-3687.

**GRA** 

January 15,2004

DR. GEOFFREY R. AKERS, P.E. PRIMARY EXAMINER